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IN THE CLAIMS:

Please amend the claims as follows:

- 1. (Currently amended) An isolated polymer comprising chitosan bound to a glutamine residue of a polypeptide, wherein the residue is selected from a glutamine residue and a tyrosine residue.
- 2. (Currently amended) An isolated <u>The</u> polymer comprising chitosan bound to a <u>of</u> <u>claim 1, wherein the residue is the</u> tyrosine residue of a polypeptide.
- 3. (Currently amended) The polymer of claim 1 or 2, wherein the polypeptide is not a polypeptide that is covalently bonded to chitosan in surimi.
- 4. (Currently amended) The polymer of claim 1 or 2, wherein the polypeptide is gelatine.
- 5. (Currently amended) The polymer of claim 1 or 2, wherein the polypeptide is 2-5 amino acids in length.
- 6. (Currently amended) The polymer of claim 1 or 2, wherein the polypeptide is 6-20 amino acids in length.
- 7. (Currently amended) The polymer of claim 1 or 2, wherein the polypeptide is at least 21 amino acids in length.
- 8. (Currently amended) The polymer of claim 1 or 2, wherein the polymer is chitosan covalently bonded to one or more polypeptides, a polypeptide covalently bonded to one or more chitosan, or a combination thereof.
- 9. (Original) The polymer of claim 8, wherein the chitosan is bound to two or more polypeptides of different types.

- 10. (Original) A composition comprising a polysaccharide, a polypeptide and an enzyme, wherein the enzyme is transglutaminase or tyrosinase.
- 11. (Currently amended) A method of making a polymer, which comprises contacting a polypeptide and a polysaccharide with a <u>an enzyme selected from tyrosinase and</u> transglutaminase under conditions sufficient to bind the polypeptide to the polysaccharide, wherein the polypeptide comprises <u>at least one of a tyrosine residue for the tyrosinase enzyme and</u> a glutamine residue <u>for the transglutaminase enzyme</u>.
- 12. (Currently amended) A <u>The</u> method of making a polymer claim 11, which comprises:

contacting a <u>the</u> polypeptide comprising a <u>the</u> glutamine residue with <u>the</u> transglutaminase to yield a modified polypeptide; and

contacting the modified polypeptide with a <u>the</u> polysaccharide under conditions sufficient to bond the polysaccharide to the modified polypeptide.

- 13. (Currently amended) A <u>The</u> method of <u>making a polymer claim 11</u>, <u>which</u> comprises contacting a polypeptide and a polysaccharide with a <u>wherein the enzyme</u> comprises the tyrosinase under conditions sufficient to bind the polypeptide to the polysaccharide, <u>and</u> wherein the polypeptide comprises a <u>the</u> tyrosine residue.
- 14. (Currently amended) A <u>The</u> method of making a polymer claim 11, which comprises:

contacting a <u>the</u> polypeptide comprising a <u>the</u> tyrosine residue with <u>the</u> tyrosinase to yield a modified polypeptide; and

contacting the modified polypeptide with a <u>the</u> polysaccharide under conditions sufficient to bond the polysaccharide to the modified polypeptide.

15. (Currently amended) The method of one of claims 10-14 claim 13, wherein the polypeptide is gelatine.

- 16. (Currently amended) The method of one of claims 10-14 claim 13, wherein the polysaccharide is chitosan.
- 17. (New) The method of claim 11, wherein the enzyme comprises the transglutaminase and wherein the polypeptide comprises the glutamine residue.
 - 18. (New) The method of claim 17, wherein the polypeptide is gelatine.
 - 19. (New) The method of claim 17, wherein the polysaccharide is chitosan.
 - 20. (New) The polymer of claim 1, wherein the residue is the glutamine residue.